

Figure 1. (A) Bam HI digestion pattern of positive 50kb lambda clone for Ara hII gene (lane3), Lambda DNA/Hind III markers (lane1), 1 kb DNA step ladder (lane2). (B) Hybridization of a 80-mer labelled probe with an subcloned 12kb Bam HI-fragment. (C) Hybridization of an 62-mer labelled probe with a subcloned 6.5 Bam HI-fragment (clones 1-6).

tccttacgcgaaatacggg
 -91 cagacatggcctgcccggtttatttttttgcacacagaccaac
 -46 tggtaatggtagcgaccggcgctcagctggattcgccggccca
 1 **atggccaa**gctcaccatactagtagccctcgccctttcctc
M A K L T I L V A L A L F L L
 46 gctgcccacgcacatctgcgaggcagcagtggaaactccaaggagac
A A H A S A R Q Q W E L Q G D
 91 agaagatgccagagccagctcgagagggcgaacctgaggccctgc
R R C Q S Q L E R A N L R P C
 136 gagcaacatctcatgcagaagatccaacgtgacgaggattcatat
E Q H L M Q K I Q R D E D S Y
 181 gaacgggaccgcgtacagcccttagtcaggatccgtacagccctagt
E R D P Y S P S Q D P Y S P S
 226 ccatatgatcgagaggcgctggatcctctcagcaccagagagg
P Y D R R G A G S S Q H Q E R
 271 tggtaatggactgacgatggatggatggatggatggatggatgg
C C N E L N E F E N N Q R C M
 316 tgcgaggcattgcaacagatcatggagaaccagagcgtatggatgg
C E A L Q Q I M E N Q S D R L
 361 caggggaggcaacaggagcaacagttcaagagggagctcaggaac
Q G R Q Q E Q Q F K R E L R N
 406 ttgcctcaacagtgcggcccttagggcaccacagcgttgcacttg
L P Q Q C G L R A P Q R C D L
 451 gacgtcgaaaagtggcgccaggcgccgcgaattccgcgtactg
D V E S G G R R P R I P P I L
 496 acgggctccaggagtcgtcgccaccaatccccatatggaaaccgt
T G S R S R R H Q S P Y G N R
 541 ccatattcagccatgtgccttctccgcgtgcagcagatggcgt
R Y S A M C L L P R A A D G D
 586 ggctggttccatcagttgttactgttagcggct**tgatgttga**
G W F P S V A V D C S G Stop
 631 actggaaagtgcgcgcgcactgggtggccataattcaattcgc
 676 gctcccgccgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc
 721 tatacatgtctgacaatggcagatcccagcggtaaaacaggcgg
 766 cagtaaggcggtcgggatagtttcttgcggccataatccgagcc
 811 agtttacccgcgtctgtcacctgcgcgcgcgcgcgcgcgc
 856 tccgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc
 901 taatcgccatggaccactaccatcaatccgttagtttccg
 946 tgataaaaggtttccctgatgtgcgcacgcgtgagcggc
 991 gtaatcagcaccgcataacaatgttgcgtgcactgcaa
 1036 caacgcgtggttcggtcg

Figure 2

Fig. 3.

gacacagaccaactggtaatggtagcgaccggcgctcagctggaaatcgccggccgccaatggccaagc
tcaccatactagtagccctcgccctttccctcctcgctgcccacgcacatctgcgaggcagcagtggaaactccaaggagacagaa
gatgccagagccagctcgagagggcgaacctgaggccctgcgagcaacatctcatgcagaagatccaacgtgacgaggattc
atatacgggaccgtacagccctagtcaggatccgtacagccctagtcatatgtcgagaggcgctggatccctcagca
ccAAGAGAGGTGTTGCAATGAGCTGAACGAGTTGAGAACAAACCAAAAGGTGC
ATGTGCGAGGCATTGCAACAGATCATGGAGAACAGAGCGATAGGTTGCAG
GGGAGGCAACAGGAGCAACAGITCAAGAGGGAGCTCAGGAACTTGCCTCAA
CAGTGCAGGCTTAGGGCACACAGCGTTGCGACTTGGACGTCGAAAGTGGC
GGCAAGgcggccgcgaattccgcgatactgacgggctccaggagtcgtogeccaccaatccccatatggaaaccgtcgat
attcagccatgtgcctttccgcgtcagcagatggcgatggctggatccatcagttgctgtgactgttagcggctga

Fig. 4.

Fig. 5.

Figure 6: Gene constructs for down-regulating peanut allergens in transgenic peanuts.

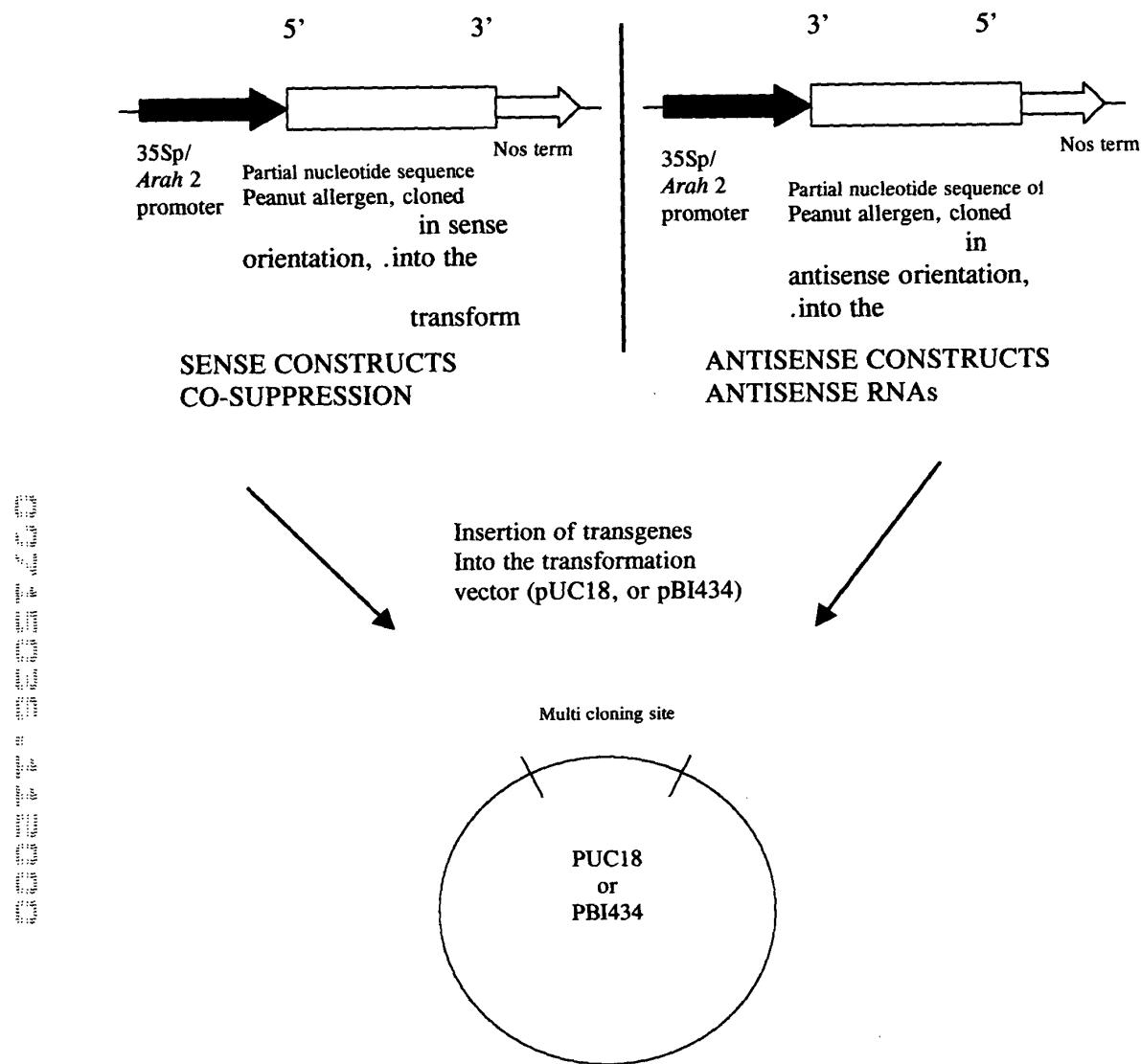
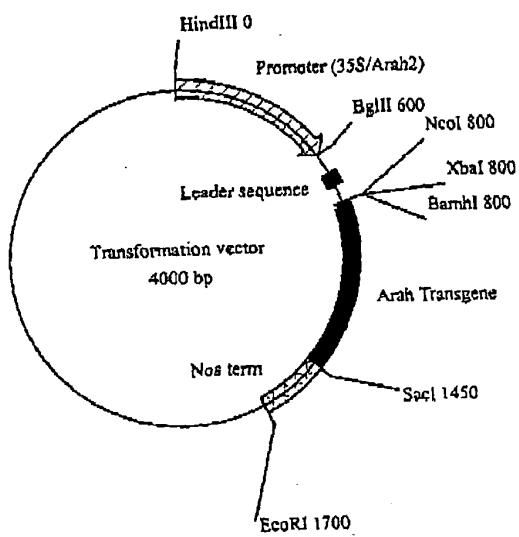


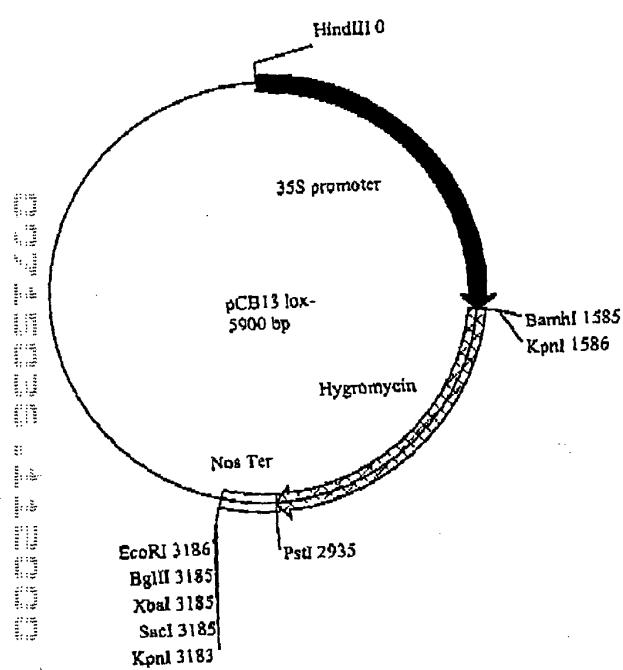
Figure 7.

Fig. 8

Modified pBI426



pCB13 for selection of transgenic plants



Modified pBI434

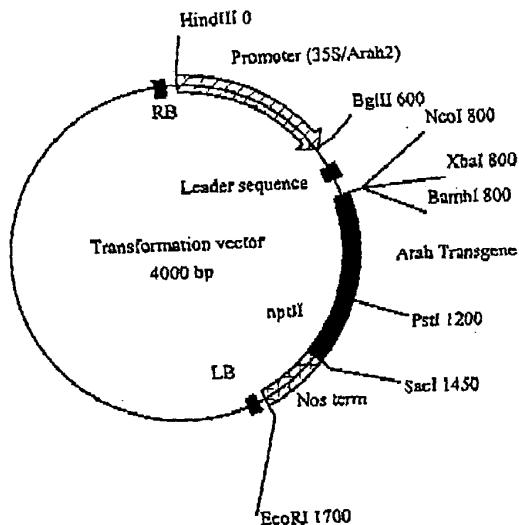


Fig. 9

tccttacgcgaaatacggg
-91 cagacatggcctgcccggtt**tattattat**ttttgacacagaccaac
-46 tggtaatggtagcgaccggcgctcagctggaaattcgcgccgcca
1 **atggccaagct**caccatactagtagccctcgccctttcctcctc

Fig. 9 shows the nucleotide sequence of the *Arah2* promoter upstream of the ATG initiation codon of the genomic *Arah2* clone.